

trans-(2-Ethylcyclopentyl)methanol

| | |
|-----------------------------|---|
| Inchi: | InChI=1S/C8H16O/c1-2-7-4-3-5-8(7)6-9/h7-9H,2-6H2,1H3/t7-,8+/m1/s1 |
| InchiKey: | RMUDBYVEBKXLKI-SFYZADRCSA-N |
| Formula: | C8H16O |
| SMILES: | CCC1CCCC1CO |
| Mol. weight [g/mol]: | 128.21 |
| CAS: | 36258-08-9 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|----------------------|----------------|
| gf | -91.50 | kJ/mol | Joback Method |
| hf | -320.54 | kJ/mol | Joback Method |
| hfus | 15.57 | kJ/mol | Joback Method |
| hvap | 50.03 | kJ/mol | Joback Method |
| log10ws | -1.85 | | Crippen Method |
| logp | 1.805 | | Crippen Method |
| mcvol | 118.590 | ml/mol | McGowan Method |
| pc | 3276.53 | kPa | Joback Method |
| rinpol | 1058.00 | | NIST Webbook |
| tb | 485.23 | K | Joback Method |
| tc | 668.78 | K | Joback Method |
| tf | 247.40 | K | Joback Method |
| vc | 0.443 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|-----------|---------|-----------------|---------------|
| cpg | 275.57 | J/molxK | 485.23 | Joback Method |
| cpg | 289.88 | J/molxK | 515.82 | Joback Method |
| cpg | 303.53 | J/molxK | 546.41 | Joback Method |
| cpg | 316.54 | J/molxK | 577.01 | Joback Method |
| cpg | 328.93 | J/molxK | 607.60 | Joback Method |
| cpg | 340.72 | J/molxK | 638.19 | Joback Method |
| cpg | 351.92 | J/molxK | 668.78 | Joback Method |
| dvisc | 0.0294410 | Paxs | 247.40 | Joback Method |

| | | | | |
|-------|-----------|------|--------|---------------|
| dvisc | 0.0075141 | Paxs | 287.04 | Joback Method |
| dvisc | 0.0026713 | Paxs | 326.68 | Joback Method |
| dvisc | 0.0011879 | Paxs | 366.31 | Joback Method |
| dvisc | 0.0006188 | Paxs | 405.95 | Joback Method |
| dvisc | 0.0003620 | Paxs | 445.59 | Joback Method |
| dvisc | 0.0002312 | Paxs | 485.23 | Joback Method |

Sources

| | |
|------------------------|---|
| McGowan Method: | http://link.springer.com/article/10.1007/BF02311772 |
| NIST Webbook: | http://webbook.nist.gov/cgi/cbook.cgi?ID=C36258089&Units=SI |
| Crippen Method: | http://pubs.acs.org/doi/abs/10.1021/ci9903071 |
| Crippen Method: | https://www.chemeo.com/doc/models/crippen_log10ws |
| Joback Method: | https://en.wikipedia.org/wiki/Joback_method |

Legend

| | |
|----------------------------|---|
| cp_g: | Ideal gas heat capacity |
| dvisc: | Dynamic viscosity |
| gf: | Standard Gibbs free energy of formation |
| hf: | Enthalpy of formation at standard conditions |
| hfus: | Enthalpy of fusion at standard conditions |
| hvap: | Enthalpy of vaporization at standard conditions |
| log₁₀ws: | Log ₁₀ of Water solubility in mol/l |
| log_p: | Octanol/Water partition coefficient |
| m_cvol: | McGowan's characteristic volume |
| pc: | Critical Pressure |
| rin_{pol}: | Non-polar retention indices |
| tb: | Normal Boiling Point Temperature |
| tc: | Critical Temperature |
| tf: | Normal melting (fusion) point |
| vc: | Critical Volume |

Latest version available from:

<https://www.chemeo.com/cid/48-517-5/trans-2-Ethylcyclopentyl-methanol.pdf>

Generated by Cheméo on 2024-04-20 03:51:36.553891021 +0000 UTC m=+15874345.474468354.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.